

Title (en)
RFID tag having capacitive load

Title (de)
RFID-Etikett mit kapazitiver Last

Title (fr)
Étiquette RFID dotée de charge capacitive

Publication
EP 2390826 B1 20130710 (EN)

Application
EP 11165236 A 20110509

Priority
TW 99117241 A 20100528

Abstract (en)
[origin: EP2390826A1] The present invention relates to an RFID tag (1) having capacitive load (12), including: an antenna unit (11), a capacitive load (12) and an RFID device (13). The antenna unit includes two metal sheets (111) and a conductive substrate (112), and the metal sheets are disposed above the conductive substrate and electrically connected to the conductive substrate. The capacitive load is electrically connected to the metal sheets. The RFID device feeds the antenna unit by electrically connecting to the metal sheets or coupling. This dramatically decreases the operating frequency, so the imaginary part of impedance is higher with the same size of the antenna unit, thereby reducing the size of the RFID tag. As a result, the weight is reduced, the manufacture process is simplified and the subsequent structure can be easily adjusted.

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Cited by
CN104160554A; EP2833477A4; EP3089261A1; US9563838B2

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